1	SPECIAL ARTICLES	8.1	FEEDING
2	.Envelope	9.01	.Multiple supplies
3.01	DELIVERING TO STACK AND FEEDING	9.02	Sheet feeding from one supply
	THEREFROM		controls feeding from another
3.02	.Aligning at stack	9.03	supply
3.03	.Intermediate tray		Responsive to empty supply
3.04	.With job divider (e.g.,	9.04	Alternate feeding
	resettable bail bar or double bar separator)	9.05	<pre>Supply selection (e.g., sheet color)</pre>
3.05	.Feeding from bottom of stack	9.06	Size selection
3.06	Control for feeding responsive to delivering	9.07	Single separator acts on multiple supplies
3.07	Pneumatic separating	9.08	Movably mounted supply
3.08	.Feeding from top of stack	9.09	Including manual supply
3.09	Control for feeding responsive	9.1	Including continuous web supply
3.05	to delivering	9.11	Superposed supplies
3.11	Pneumatic separating	9.12	Juxtaposed supplies
3.12	.Sheets on edges	9.13	With convergence to single path
3.12	.With sheet sensor for selective	10.01	.Separator and conveyor
3.13	location	11	Pneumatic separator
3.14	FEEDING AND DELIVERING	12	Endless conveyor
3.15	Sensor located at the feeder and	13	Side aligner
3.13	controls the delivering	14	Reciprocating conveyor
3.16	Having timer	15	Side aligner
3.17	.Sensor located at the delivering	16	Buckling separator and endless
3.17	and controls the feeding		conveyor
3.18	.Conveyor releases to subsequent	17	Side aligner
	conveyor	10.02	Sensor located at the separator
3.19	With alternate conveying path		and controls the conveyor
3.2	Including conveyor couple	10.03	Sensor located at the conveyor
3.21	On peripheral face of drum or		and controls the separator
	belt	10.04	Mechanically linked for
3.22	Pneumatic		simultaneous operation
3.23	Including pneumatic conveyor	10.05	Selective drive (e.g., number
3.24	Including gripper couple		of degree of rotation)
4.01	.Separator and conveyor	10.06	Endless belt separator
5	Pneumatic separator	10.07	To endless belt conveyor
6	Continuous endless conveyor	10.08	To rotary conveyor
4.02	Sensor located at the separator	10.09	Rotary separator
	and controls the conveyor	10.1	To endless belt conveyor
4.03	Sensor located at the conveyor	10.11	To rotary conveyor
	and controls the separator	10.12	With aligning
4.04	Mechanically linked for	10.13	With clutch
	simultaneous operation	10.14	Reciprocating separator
4.05	Endless belt separator	10.15	To endless belt conveyor
4.06	To endless belt conveyor	10.16	To rotary conveyor
4.07	To rotary conveyor	18	.Separators
4.08	Rotary separator	18.1	Magnetic or electrostatic
4.09	To endless belt conveyor	18.2	Cyclicly moving
4.1	To rotary conveyor	18.3	Surface-piercing element(s)
4.11	Reciprocating separator	19	Buckling
4.12	To rotary conveyor	20	Pneumatic
7	.Continuous endless conveyors	21	Rotary
	_		

22	Pack advancer	113	Separator rotating in plane of
23	Bottom feed		foremost sheet
24	Pack advancer	114	Variably or intermittently
25	Feeler control		driven
90	Pneumatic	115	In oscillatory movement
91	Plural, relatively-moving	116	By over-running one-way drive
	suction members	117	Separator adjustable or
92	Laterally receding members		retractable relative to pack
	(e.g., for tautening sheet	118	Feed by successive approach
	laterally)		and retraction
93	Including members for	119	Separator having non-uniform
	separating and members for		periphery
	forwarding sheet	120	Including relatively movable
94	Unidirectionally-moving		elements
	suction member or surface	121	With means to restrain feed of
95	Having additional movement		next sheet
96	With means to adjust suction	122	By restrainer having
97	Sheet removal by pressurized	122	rearwardly moving surface
<i>J</i> 1	qas	123	By restrainer acting on rear
98	And suction means	123	end of sheet
99		124	
99	Suction member acting on		By adjustable restrainer
100	bottom of pack	125	Including restraining roller
100	Oscillating member bending	126	With means to urge pack toward
101	margin of bottom sheet	4.00	separator
101	With moving segments	127	Including pivoted pack holder
	supporting remainder of pack	42	Reciprocating
102	Suction member reciprocating	128	With pack advancer
	perpendicularly to sheet	129	With sheet on edge
103	Sheet-moving action of suction	130	And feeler control for
	member results from engagement		advancer
	with sheet	131	Bottom feed
104	With means to restrain feed of	132	Suction assisted
	next sheet	133	With means to prepare pack or
105	Means effecting preliminary		bottom sheet for feeding
	operation on sheets in pack	134	By relief of pack weight
106	Suction member flexing sheet	135	By partial planar movement
	or portion		of bottom sheet
107	Oscillating suction member	136	With means to skip or stop
108	Controlled by valve means		feed
30.1	Pack advancer	137	With means to restrain feed
31	Feeler control		of next sheet
31.1	Stack on edge	138	By adjustable exit or throat
33	Adhesive	139	By pusher reciprocating
34	Endless belt	137	variably or non-rectilinearly
35	Bottom feed	140	Orbital (e.g., four-way)
109	Rotary	110	motion of pusher
37	Preliminary protrusion	141	_
38	Feeler control	142	By pin (e.g., pointed) pusher
110	Control of separator	172	By adjustable (e.g., for
T T O	<u>-</u>	1 / 2	sheet thickness) pusher
111	responsive to sensing of sheet	143	By self-aligning (e.g.,
111	Including plural separators	1 / /	yieldable) pushers
110	or plural sensors	144	Holder adjustable to size of
112	Suction assisted		sheet

225	.By means to change direction of	254	During operation of feeder
	sheet travel	255	With indicator of aligner
226	.With means to align sheet		position
227	Responsive to sheet-sensor	256	.With means to interrupt feeding
228	To control gripper-couple	258.01	Responsive to sheet sensor
	moving sheet to alignment	259	Plural sensors
229	With means to retard sheet	260	Pneumatic sensors (e.g., to
	before alignment		sense superposed sheets)
230	By member moved with sheet	261	Laterally spaced sensors
231	Including suction retarder		(e.g., to sense misalignment)
232	Against aligner entering hole	262	Excess-thickness sensor
	in sheet	263	To activate an electric
233	Against rear-edge aligner		circuit
234	Against plural aligning	258.02	Interrupts feeding upstream
231	assemblages	250.02	only
235	For incremental travel against	258.03	Single sensor with timer
233		258.03	
236	successive front-edge alignersFor front and side alignment	250.04	Sensor operates warning
230	5	050 05	indicator
0.2.17	of sheet	258.05	Mechanical linkage
237	Alignment of imbricated	257	Manually controlled (e.g., for
	sheets		alternate-cycle feed)
238	Including oppositely-disposed	264	.By means to convey sheet (e.g.,
	side-edge aligners		from pack to operation)
239	Plural aligners selectively	265.01	Responsive to sheet sensor
	used	265.02	Plural sensors
240	Oppositely-disposed side-edge	265.03	Laterally spaced sensors
	aligners	265.04	Thickness sensor
241	By aligning a sheet-holder and	266	With intermittent movement of
	its sheets		the sheet
242	Against temporarily-stopped	267	On oscillating or reciprocating
	conveyer		conveyor
243	Against front-edge aligner	268	Including gripper-couple
	moved in direction of sheet	269	Including rear-edge pusher
	travel	270	With means to vary speed of
244	By retro-moving front-edge		conveyor sheet
	aligner	271	By rear-edge pusher
245	Against front-edge aligner	272	Between superposed conveyor
	interposed into sheet path	272	couple
246	Synchronized with	273	Having means to permit
	intermittently-active	273	separation of couple
	conveyor-couple	274	
247	Including sheet-margin	2/4	Including couple-elements
21,	gripper	275	resiliently urged together
248	Against aligner adjacent side	275	On peripheral face of drum or
210	edge of sheet	0.7.6	belt
249	By shifting aligner and	276	Including pneumatic means
249		277	Including gripper-couple
	<pre>gripper-couple laterally of sheet travel</pre>	145	.Pack holders
250		146	With means to vibrate pack
250	By means to shift sheet	147	Advancer
251	laterally against aligner	148	With means to move portions of
251	By oblique conveyor		advancer unequally (e.g., for
252	By gripper-couple pulling		unequal-thickness sheets)
0.5.3	sheet laterally	149	For on-edge or imbricated
253	With means to adjust position		sheets
	of aligner		

201	relative to pack receiverMoving away from increasing delivered pack	900 901	STRIPPER MAGNETIC OPERATION
200	Operation controlled by delivered sheetWith delivery end movably	CROSS-F	REFERENCE ART COLLECTIONS
199	-		
198	.By endless conveyor	22 1	Sheet-Impact bumper member
197	Including endless-belt conveyor and suction chamber	223	sizeSheet-impact bumper member
196	Unidirectionally-moving suction member or surface	223	moving meansMembers adjustable to sheet
195	Using pressurized gas	222	And yieldable connection in
194	.By pneumatic conveyor		(e.g., jogger)
193	.By electrostatic or magnetic conveyor	221	And means to move members cyclicly against sheet edges
	lateral margins	22U	<pre>With movable pack-limiting member(s) (e.g., hold-down)</pre>
192	Counter-rotating supports for	219	Spring-loaded support
191	Endless belt on reciprocating carrier	219	part of pile
	sheet-supports on endless carrier	217 218	<pre>Lowering as pack-height increasesWith auxiliary support for</pre>
190	between conveyor and receiverTransversely-disposed, gapped		imbricated sheets
189	Means temporarily interposed	216	Conveyor-receiver for
100	delivery	215	(e.g., retractor)Responsive to increase
188	pocket membersMeans to bow sheets during	214	Receding from delivery zone (e.g., retractor)
187	By rotating circumferential-		support
186	Sheet inverting means	213	With movable sheet-surface
185	Orientation-changing means	212	For receiving sheets from below the pack
	direction of sheets during delivery	212	and pack
184	Means to change orientation or	211	With air cushion between sheet
183	By suction retarder	210	With means to vibrate receiver
182	Means to retard sheets	209	With means to bow sheets
	receiver		electricity
181	Packing sheets on-edge into	208	With means to discharge static
	oscillating packer	207	.To receiver for pack of sheets
180	By reciprocating or	85	Suspension gripper
179	Screw or helix	84	.Reciprocating conveyors
178	Rotating packer	83	Flies
	movement (e.g., packer)	82	Suspension gripper
± / /	edgewise into broadside	81	Traveling
177	Means to push sheets out of	212	members
176	Responsive to delivered sheet	314 315	.Rotary conveyorWith circumferential pocket
175	Means to drape sheets over horizontal bar	206	With means to adjust gripper
	constant spacing of movable stripper	205	For lateral margins of conveyed sheet
313	With means to maintain	204	Suspension gripper
	relation to conveyor surface		speed
312	with conveyor surfaceStripper normally in spaced	203	<pre>sheets on conveyor(s)By cyclicly varying conveyor</pre>
311	Stripper normally in contact	202	With means to vary speed of

271 - 6 CLASS 271 SHEET FEEDING OR DELIVERING

902 REVERSE DIRECTION OF SHEET
MOVEMENT
903 TRAVELING WICKET (FOR STACK ON EDGE)

FOREIGN ART COLLECTIONS

FOR CLASS-RELATED FOREIGN DOCUMENTS